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Toner composition for electrophotography and electrostatic recording -
includes binder contg. polymeric substance having sulphonate Gp. linked
with aromatic ring

Patent Assignee: FUJI XEROX CO LTD (XERF)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 63088564	A	19880419	JP 86233271	A	19861002	198821 B

Priority Applications (No Type Date): JP 86233271 A 19861002

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 63088564	A		6		

Abstract (Basic): JP 63088564 A

The compsn. comprises colouring agent and binder resin, which
contains polymeric substance having sulphonate gp. linked with aromatic
ring.

USE/ADVANTAGE - The toner is used for electrophotography,
electrostatic recording etc., and can be used two component development
process utilising carrier and also one component process utilising no
carrier. Toner has good negative charging, developing and transfer
properties. An adequate charging level is achieved within short time.
Charging quantity is regulated sharply.

In an example, in pts. wt., styrene/n-butylacrylate copolymer (Tg
= 65 deg.C, Mn = 30,000, Mw = 70,000) 60,
styrene/Na-vinyl-benzenesulphonate copolymer (Na-vinylbenzenesulphonate
content = 3 mol%, Mn = 7,000, Mw = 10,000) 30 and carbon black 10 were
mixed and ground thoroughly to obtain toner with particle size of d50 =
13 micron. To the toner were added silica fine powder 0.7 wt.% and
acrylic resin fine powder obtd. soapless emulsion polymerisation by 0.8
wt.% and mixed together. In combination with carrier, the toner mixt.
prepd. was tested for developing property. 30,000 xerographic copies
obtd. by continuous operation were all clear.

Title Terms: TONER; COMPOSITION; ELECTROPHOTOGRAPHIC; ELECTROSTATIC; RECORD
; BIND; CONTAIN; POLYMERISE; SUBSTANCE; SULPHONATE; GROUP; LINK; AROMATIC
; RING

Derwent Class: A89; G08; P84; S06

International Patent Class (Additional): G03G-009/08

File Segment: CPI; EPI; EngPI

Manual Codes (CPI/A-N): A12-L05C2; G06-G05

Manual Codes (EPI/S-X): S06-A04C1

Plasdoc Codes (KS): 0007 0037 0203 0218 0044 0231 0306 0355 0486 0487 0495
3034 0530 2082 2105 2326 2330 2542 2585 2651 2667 2806 2808

Polymer Fragment Codes (PF):

001 014 030 034 04- 040 05- 051 055 056 059 06- 074 075 076 081 09- 230
27& 347 368 386 392 393 479 546 575 583 589 592 593 604 608 609 658
659 679 688 725